

## Seminar

29. September 2010 15:30h HS 44-380

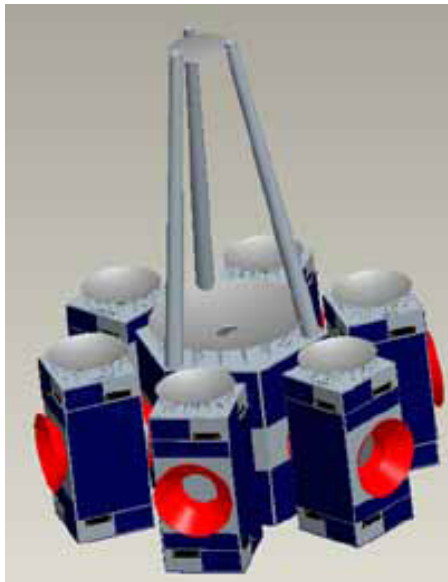


zu folgendem Vortrag wird herzlich eingeladen:

### **Towards modeling the self-assembly of large space apertures**

Gwendolyn B. Johnson  
California Institute of Technology

An overview of the goals and activities Keck Institute for Space Studies (KISS), at the California Institute of Technology, will be presented. This overview will be accompanied by a summary of the work done in the last year by the Self-Assembling Large Space Telescope Technology Development Group, one of three technology development groups funded by KISS. One particular thrust of this group, which will be discussed in detail, is the development of numerical tools to study and validate the self-assembly of very large structures in space. These tools include fast, robust, and structure-preserving contact algorithms for rigid body dynamics and finite element models, as well as numerical methods for performance certification and system optimization.



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